PATENT COOPERATION TREATY

PCT

REC'D 13 FEB 2006

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)					
60469-099	International filing date (day/mo	onth/year) Priority date (day/month/year)				
International application No.	International thing dute (asymmetry)					
PCT/US03/31551	07 October 2003 (07.10.2003)					
International Patent Classification (IPC) or national classification and IPC						
IPC(7): B66B 5/04 and US Cl.: 187/ 286,247,305,372,373,375,376,391						
Applicant						
OTIS ELEVATOR COMPANY						
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 						
2. This REPORT consists of a total of 3 sheets, including this cover sheet.						
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the hasis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a total of sheets.						
3. This report contains indications relating to the following items:						
I 🔀 Basis of the report						
II Priority						
III Non-establishn	III Non-establishment of report with regard to novelty, inventive step and industrial applicability					
IV Lack of unity of	of invention					
V Reasoned state applicability; c	ement under Article 35(2) with regard to novelty, inventive step or industrial citations and explanations supporting such statement					
VI Certain docum	nents cited					
	s in the international application					
VIII Certain observ	ertain observations on the international application					
Date of submission of the demand		Date of completion of this report				
05 April 2005 (05.04.2005)		25 January 2006 (25.01.2006)				
Name and mailing address of the IPEA/US		Authorized officer Lyllin Dell For				
Mail Stop PCT, Attn: IPEA/ US Commissioner for Patents	To	Jonathan Salata				
P.O. Box 1450 Alexandria, Virginia 22313-1450		· · · · · · · · · · · · · · · · · · ·				
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Form PCT/IPEA/409 (cover sheet)(July 1998)

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International application No.	
PCT/US03/31551	

ī.	Basi	s of the report			
1.	With	regard to the elements of the international application:*			
	X	the international application as originally filed.			
	冈	the description:			
		pages 1-8 as originally filed			
		pages NONE , filed with the demand			
	K	pages NONE , filed with the letter of			
	\boxtimes	the claims:			
		pages 9-12a, as originally filed			
		pages NONE , as amended (together with any statement) under Article 19 pages NONE , filed with the demand			
		pages NONE, filed with the letter of			
	X	the drawings:			
	ككا	pages 1-5 as originally filed			
		pages NONE filed with the demand			
ł		pages NONE, filed with the letter of			
ļ		the sequence listing part of the description:			
		pages NONE as originally filed			
		pages NONE , filed with the demand			
	****	pages NONE , filed with the letter of h regard to the language, all the elements marked above were available or furnished to this Authority in the			
2.	lang	uage in which the international application was filed, unless otherwise indicated under this item.			
	The	se elements were available or furnished to this Authority in the following language which is:			
1	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).				
	H	the language of publication of the international application (under Rule 48.3(b)).			
		the language of the translation furnished for the purposes of international preliminary examination(under Rules			
ł	55.2 and/or 55.3).				
3.	Wit	h regard to any nucleotide and/or amino acid sequence disclosed in the international application, the			
	inte	rnational preliminary examination was carried out on the basis of the sequence listing:			
}	contained in the international application in printed form.				
		filed together with the international application in computer readable form.			
		furnished subsequently to this Authority in written form.			
		furnished subsequently to this Authority in computer readable form.			
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the			
l	-	international application as filed has been furnished.			
		The statement that the information recorded in computer readable form is identical to the written sequence listing			
		has been furnished.			
4.		The amendments have resulted in the cancellation of:			
		the description, pages None			
		the claims, Nos. None			
ŀ		the drawings, sheets/fig None			
5	· L	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**			
	* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in				
th	this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 10.16 and 10.17).				
*	* Any	replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.			

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International application No. PCT/US03/31551

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. STATEMENT					
Novelty (N)	Claims 1-21	YES			
	Claims NONE	NO			
Inventive Step (IS)	Claims NONE	YES			
invenievo otop (20)	Claims 1-21	NO			
Industrial Applicability (IA)	Claims 1-21	YES			
moustrial Applicability (IA)	Claims NONE	NO			

2. CITATIONS AND EXPLANATIONS

Claims 1-21 lack an inventive step under PCT Article 33(3) as being obvious over Jin (6,318,507) in view of Skalski et al (6,161,653) and Fargo et al (6269910). Jin teaches in figures 1-6, and elevator emergency stop device which is actuated under emergency conditions. Jin teaches the substitution of a cable 210 instead of a link mechanism to lower cost.

Skalski et al teaches that it advantageous to substitute between types of brake actuation such as ropes, magnetic or eddy current and illustrates a system without a rope. Thus, to substitute between types of brake actuators would have been an obvious engineering design choice to one of ordinary skill in the art based on merely cost.

Jin and Skalski et al do not teach remote actuation. Fargo et al teaches that it is advantageous to provide remote actuation of the stopping device in an elevator in order to provide a rescue operation within a machine room-less elevator and not require a skilled operator to use. Thus, to provide remote actuation would have been an obvious engineering design choice to one of ordinary skill in the art to allow unskilled operators to use.

Claims 1-21 meet the criteria set out in PCT Article 33(4), and thus meet industrial applicability because the subject matter claimed can be made or used in industry.